

## TECHNICAL MEMORANDUM

CH2MHILL

**Ditch Sediment Excavation - SWMU 25 - Inert Landfill**

PREPARED FOR: NAS Oceana Tier I Partnering Team  
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Laura Cook/CH2M HILL  
DATE: May 25, 2004

This technical memorandum summarizes ditch sediment excavation activities conducted at SWMU 25, NAS Oceana, Virginia Beach, Virginia on May 10-11, 2004. Excavation activities were completed by a field crew consisting of:

Rebekah Ives (CH2M HILL)  
Curtis Bowen (Tesoro Corporation)  
Joe Cowand (Tesoro Corporation)  
William Lane (Salmons, Inc.)  
Jim Salmon Sr. (Salmons, Inc.)  
Jim Salmon Jr. (Salmons, Inc.)

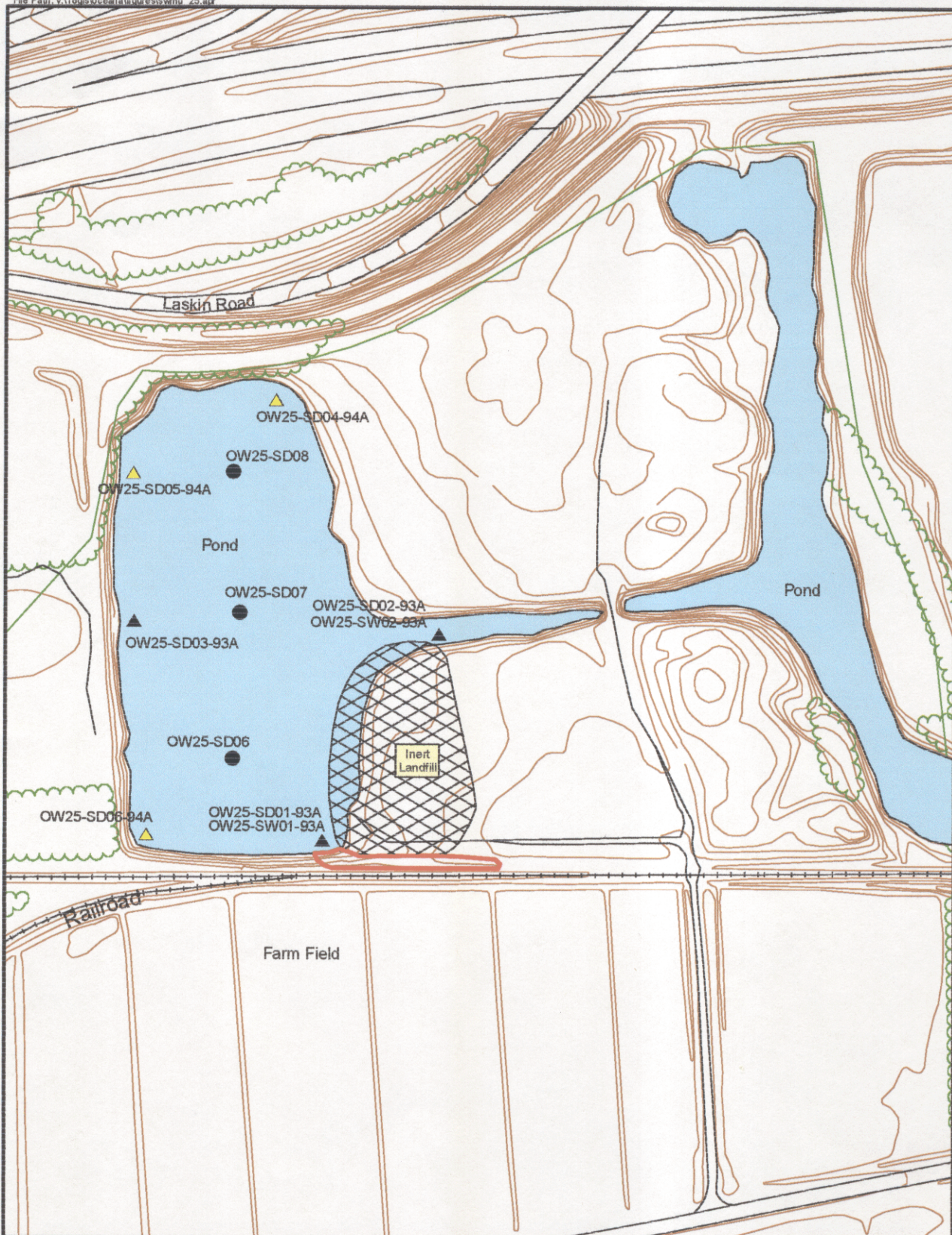
Site background and excavation completion details are described below.

**Site Background**

SWMU 25 (Inert Landfill) is located approximately 2,400 feet north, and in the Type II Clear Zone, of NAS Oceana Airfield Runway 14/32. The SWMU consists of an area known as the "western pond," a former borrow pit subsequently used as a concrete disposal area (Figure 1). The general area is bounded on the south by the Norfolk and Southern Railroad; on the west and east by undeveloped land; and, on the north by Virginia Highway 264. A semi-paved access road crosses the railroad and connects the SWMU to Potters Road. The area south of the railroad is characterized by farm fields owned by the Navy, but leased to a local farmer.

The area was investigated three times under the Resource Conservation and Recovery Act (RCRA) program. Based upon detected concentrations and available screening criteria, it was determined that a potential risk to ecological receptors existed in an isolated area in the western pond adjacent to SWMU 25. This was supported by sediment chemistry data from sample location OW25-SD01-93A in the southeast corner of the pond. Because this sample was located near the end of a ditch between the inert debris pile and the railroad track to the south, it is uncertain whether the contamination was due to the inert debris pile or some other source. The remaining data from the pond suggested that contamination was limited to this southeastern corner. SWMU 25 was recommended as a No Action (NA) site in the final Proposed Plan and Decision Document (CH2M HILL, 2003a, 2003b). The NAS Oceana Project Management Team agreed to no action at SWMU 25 with the understanding that the sediments in the ditch would be removed as part of the NAS Oceana project to remove and recycle the concrete at the site, and restore the site to an uplands habitat. In early 2004, the Navy identified that the concrete recycling project could not be performed as a "no cost"





**LEGEND**

- Phase III Sediment Sampling Location
- ▲ Phase I Sampling Location
- ▲ Phase II Sediment Sampling Location
- ▨ Approximate Landfill Boundary
- ▭ Limits of Excavation

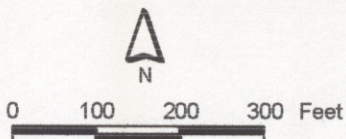


Figure 1  
SWMU 25 Sample Locations  
and Limits of Excavation  
NAS Oceana  
Virginia Beach, Virginia

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Excavated Ditch Looking East



Excavated Ditch Looking West